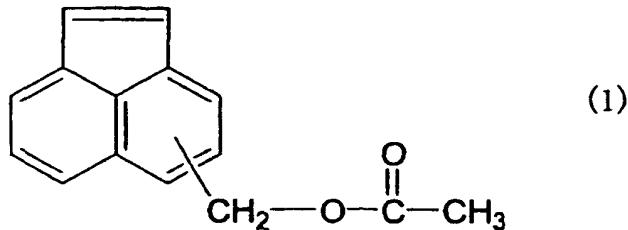


CLAIMS

1. Acetoxyethylacenaphthylene of the following formula

(1).

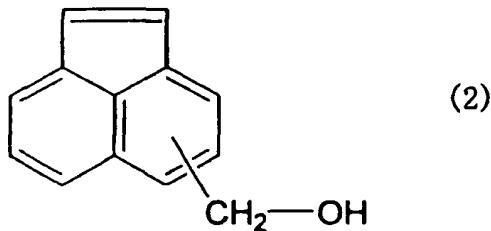
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2. Hydroxymethylacenaphthylene of the following formula

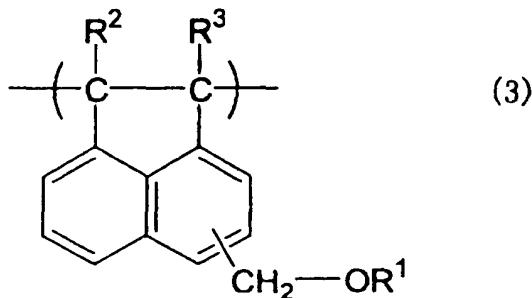
(2).

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3. A polymer containing a structural unit of the following formula (3),

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wherein R¹ is a hydrogen atom and R2 and R3 individually represent a monovalent atom or a monovalent organic group, the polymer having a polystyrene-reduced weight average
5 molecular weight determined by gel permeation chromatography (GPC) in the range of 500 to 10,000.

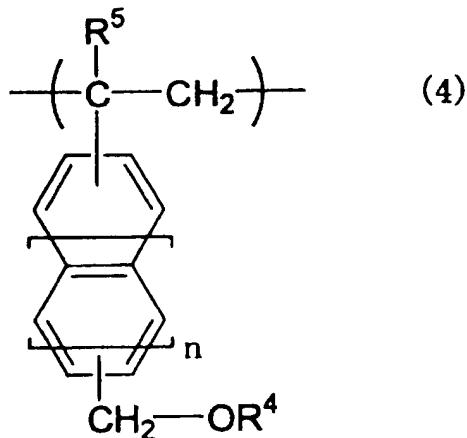
4. An antireflection film-forming composition comprising the polymer of claim 3 and a solvent.

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5. The antireflection film-forming composition comprising,

a polymer having a structural unit of the following formula (4)

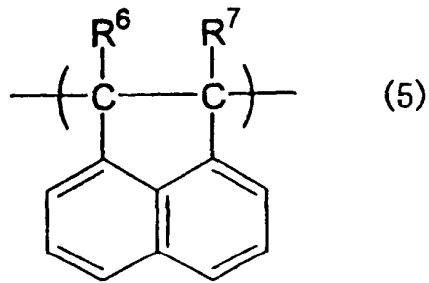
15



wherein R⁴ is a hydrogen atom or a monovalent organic group, R⁵ is a monovalent atom or a monovalent organic group, and n
20 is 0 or 1, and
a solvent.

6. An antireflection film-forming composition comprising,

at least one polymer selected from the group consisting
5 of a polymer having the structural unit of the formula (3) of
claim 3 and the structural unit of the formula (4) of claim 5,
a polymer having the structural unit of the formula (3) of claim
3 and a structural unit of the following formula (5), and a
polymer having the structural unit of the formula (4) of claim
10 5 and a structural unit of the formula (5),



wherein R⁶ and R⁷ individually represent a monovalent atom or
15 a monovalent organic group, and
a solvent.

7. The antireflection film-forming composition according to claim 4, further comprising an acid generator.

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8. The antireflection film-forming composition according to claim 5, further comprising an acid generator.

9. The antireflection film-forming composition
according to claim 6, further comprising an acid generator.

10. The antireflection film-forming composition
5 according to claim 4, further comprising an acid generator.